IN THE CLAIMS

Please amend the claims as follows:

T. (TWICE AMENDED) A device comprising:

an outer portion comprising an electrically insulative material, having (i) dimensions effective to prevent or inhibit plasma arcing to an electrically conductive surface of a plasma processing chamber aperture and (ii) a flange section configured to remain outside of said plasma processing chamber aperture; and

an inner opening, completely surrounded by the electrically insulative material of the outer portion, having dimensions effective to enable transmission of a physical signal, a gas, a gas mixture or other material through the device.

2. A plasma processing chamber having:

at least one aperture therein, the at least one aperture having an exposed electrically conductive surface, and the device of Claim 1, located inside the aperture.

3. A method of making a plasma processing chamber, the chamber having at least one aperture therein, the at least one aperture having an exposed electrically conductive surface, the method comprising inserting the device of Claim 1 into the aperture.

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- 4. A method of processing a workpiece, comprising the following steps:
- (A) exposing the workpiece to a plasma in the chamber of Claim 2; and
 - (B) transmitting a physical signal or a gas, gas mixture or other material through the device into or out from the chamber.
 - 5. (TWICE AMENDED) A plasma processing chamber having: at least one aperture therein, the at least one aperture having an exposed electrically conductive surface, and

a device inside the aperture, the device comprising an electrically insulative material and having

- (i) dimensions effective to prevent or inhibit plasma arcing to the exposed electrically conductive surface of the aperture, wherein a flange section of said device is configured to remain outside said aperture; and
- (ii) an inner opening completely surrounded by the electrically insulative material, the inner opening having dimensions effective to enable transmission of a physical signal, a gas, a gas mixture or other material through the device.
- 6. (TWICE AMENDED) A method of making a plasma processing chamber, the chamber having at least one aperture therein, the at least one aperture having an exposed electrically

conductive surface, the method comprising inserting a device into the aperture, the device comprising an electrically insulative material and having:

dimensions effective to prevent or inhibit plasma arcing to the exposed electrically conductive surface of the aperture, wherein a flange section of said device is configured to remain outside said aperture; and

an inner opening completely surrounded by the electrically insulative material, the inner opening having dimensions effective to enable transmission of a physical signal, a gas, a gas mixture or other material through the device.

- 7. The method of Claim 6, further comprising, prior to said inserting, the step of forming said aperture in said chamber.
- 8. (TWICE AMENDED) A method of processing a workpiece, comprising:

exposing the workpiece to a plasma in a chamber, the chamber having at least one aperture therein, the at least one aperture having

- 1) an exposed electrically conductive surface; and
- 2) a device in the aperture, the device comprising an electrically insulative material and having

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(i) dimensions effective to prevent or inhibit

10 plasma arcing to the exposed electrically conductive surface of the aperture, wherein a flange section of said device is configured to remain outside said aperture and

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(ii) an inner opening completely surrounded by the electrically insulative material, the inner opening having dimensions effective to enable transmission of a physical signal, a gas, a gas mixture or other material through the device; and

(iii) transmitting a physical signal, a gas, a gas mixture or other material through the device into or out from the chamber.

- 9. A method of operating a plasma processing chamber, wherein the chamber has at least one aperture therein and the aperture has an exposed electrically conductive surface, the method comprising the steps of:
- (A) initiating a plasma in the chamber, the aperture having the device of Claim 1 therein, then
 - (B) cleaning the chamber and the device.
 - 10. The method of Claim 9, wherein said plasma exists in said chamber for a predetermined period of time.

(AMENDED) The method of Claim 9, further comprising, prior $t \phi$ step B, the steps of:

exposing a workpiece to the plasma, and

transmitting\a physical signal, a gas, a gas mixture or other material through the device into or out from the chamber.

(AMENDED) The device according to claim 1, further 12. comprising:

a lower section having a first width effective to fit the plasma processing chamber aperture within a predefined tolerance; and

said flange section having a second width that is greater than a corresponding width \setminus of said plasma processing chamber aperture.

- 13. (AMENDED) The device according to claim 12, wherein said device is held in said plasma processing chamber aperture via a wire loop configured to hold said device under typical plasma processing conditions.
- (AMENDED) The device according to claim 12, wherein said lower section has a first length and said flange section has a second length.

- 15. The device according to claim 14, wherein said first length is greater than or equal to a length of a channel section of said plasma processing chamber aperture.
- 16. The device according to claim 1, wherein an end of said device has an angle, said angle measured with reference to a bottom of said device.
- 17. The device according to claim 16, wherein said angle is non-orthogonal.
- 18. The device according to claim 1, wherein said physical signal comprises a spectroscopic endpoint detection signal.
- 19. The plasma processing chamber of claim 2, wherein said at least one aperture comprises an endpoint detection channel.
- 20. The device according to claim 1, wherein the electrically insulative material is selected from the group consisting of ceramics, multi-crystal ceramics, polyvinyl polymers, polytetrafluoroethylene, polyethylene, polypropylene, polyimides, polycarbonates and single crystal insulative minerals.